

## **COURSE OBJECTIVE**

### **STRATEGY & TACTICS I - 2003**

At completion of this course the student should be able to:

- 4STI-1** Understand orientation to strategy and tactics.
  - 4STI-1.1** Identify the Illinois State Fire Marshal, Division of Personnel Standards and Education requirements for Fire Officer I certification.
  - 4STI-1.2** Identify the NFPA Standard governing Fire Officer I.
  - 4STI-1.3** Identify the most common fire department organizational principles.
  - 4STI-1.4** Identify the fire department organizational structure.
  - 4STI-1.5** Identify the following definitions:
    - 4STI-1.5.1** Strategic goal
    - 4STI-1.5.2** Tactical objectives
- 4STI-2** Understand the Incident Management System.
  - 4STI-2.1** Identify the NFPA standard that governs the Incident Management System.
  - 4STI-2.2** Identify the common characteristics of an Incident Management System.
  - 4STI-2.3** Identify risk management.
  - 4STI-2.4** Identify risk management principles utilized by the Incident Commander.
  - 4STI-2.5** Identify risk factors considered by the Incident Commander.
  - 4STI-2.6** Identify the components for personnel accountability.
  - 4STI-2.7** Identify the components for personnel safety.
- 4STI-3** Understand Pre-Incident Planning.
  - 4STI-3.1** Identify the benefits of pre-fire planning.
  - 4STI-3.2** Identify the components of a pre-incident survey.
  - 4STI-3.3** Identify the procedures for conducting a pre-incident survey.
  - 4STI-3.4** Identify guidelines for developing pre-incident plans.
  - 4STI-3.5** Given a summary of the development of a pre-plan, the student shall prepare a pre-plan for a target hazard using forms, symbols, map and describe the utilization of personnel, equipment and extinguishing agents.

- 4STI-4** Understand building construction.
- 4STI-4.1** Identify fire problems associated with building construction.
  - 4STI-4.2** Identify the factors to consider when dealing with fire loss risk management.
  - 4STI-4.3** Identify the difference between fire and building codes.
  - 4STI-4.4** Identifying the importance of pre-incident planning and fire suppression as it relates to building construction.
  - 4STI-4.5** Identify five types of building construction classifications.
  - 4STI-4.6** Identify terms that describe different types of loads placed on a building.
  - 4STI-4.7** Identify the characteristics of beams, trusses, and columns.
  - 4STI-4.8** Identify terms used to describe wood construction.
  - 4STI-4.9** Identify different types of building construction.
  - 4STI-4.10** Identify different types of engineered wood products.
  - 4STI-4.11** Identify the characteristics of ordinary construction.
  - 4STI-4.12** Identify the following terms:
    - 4STI-4.12.1** Purlins
    - 4STI-4.12.2** Spandel girders
  - 4STI-4.13** Identify the uses of steel as a construction material.
  - 4STI-4.14** Identify the characteristics of steel when exposed to heat.
  - 4STI-4.15** Identify the terms to describe concrete construction.
  - 4STI-4.16** Identify various types concrete structural construction.
  - 4STI-4.17** Identify the hazards of concrete collapse during construction.
  - 4STI-4.18** Identify the fire problems of concrete buildings under construction.
  - 4STI-4.19** Identify fire problems in finished concrete buildings.

- 4STI-5** Understand the process of incident planning.
- 4STI-5.1** Identify the phases of fire behavior.
  - 4STI-5.2** Identify the term size-up.
  - 4STI-5.3** Identify the traditional five (5)-step process for size-up.
  - 4STI-5.4** Identify the three (3)-step process for the evaluation of an emergency situation.
  - 4STI-5.5** Identify the application size-up theory.
  - 4STI-5.6** Identify the basic priorities for size-up.
  - 4STI-5.7** Identify the *RECEO* list of priorities for emergency situations.
  - 4STI-5.8** Identify the components for incident plans.
  - 4STI-5.9** Identify the types of communication equipment and procedures used for incident management.

- 4STI-5.10** Identify fire protection systems and features.
- 4STI-6** Understand engine company operations.
  - 4STI-6.1** Identify the duties of an engine company.
  - 4STI-6.2** Identify the equipment and initial hose operations.
  - 4STI-6.3** Identify advantages and disadvantages of straight and reverse relays.
  - 4STI-6.4** Identify sources of water supply for engine operations.
  - 4STI-6.5** Identify proper positioning of engines for effective fire suppression.
  - 4STI-6.6** Identify buildings that may be a problem for the positioning of fire engines.
  - 4STI-6.7** Identify the various attack lines required for fire suppression.
  - 4STI-6.8** Identify disadvantages of fog streams for interior attack.
  - 4STI-6.9** Identify advantages for using straight streams.
  - 4STI-6.10** Identify the importance of exposure protection.
  - 4STI-6.11** Identify heavy stream devices for fire suppression.
  - 4STI-6.12** Identify factors effecting a successful tanker shuttle operation.
  - 4STI-6.13** Identify effective use of protective systems for fire suppression.
- 4STI-7** Understand truck company operations.
  - 4STI-7.1** Identify the primary duties of a truck company.
  - 4STI-7.2** Identify the types of tools used for truck company assignments.
  - 4STI-7.3** Identify tactical considerations for a truck/aerial apparatus.
  - 4STI-7.4** Identify rescue considerations for a truck company operation.
  - 4STI-7.5** Identify ventilation techniques and operation procedures.
  - 4STI-7.6** Identify methods used for accessing fire extension.
  - 4STI-7.7** Identify the tools needed and procedures of proper forcible entry.
  - 4STI-7.8** Identify the procedures for aerial operations on the fire-ground.
  - 4STI-7.9** Identify the procedures for salvage operation required of a truck company.
  - 4STI-7.10** Identify the procedures used for controlling utilities on the fire-ground.

**4STI-8** Understand the guidelines for handling a hazardous materials incident.

**4STI-8.1** Identify the components for a hazardous materials management system.

**4STI-8.2** Identify the structure of a hazardous materials command system.

**4STI-8.3** Identify the guidelines for a hazardous materials incident analysis.

**4STI-8.4** Identify three preparation factors for responding to a hazardous materials incident.

**4STI-8.5** Identify the eight (8) step process for handling a hazardous materials incident.

**4STI-8.6** Identify methods for identifying hazardous materials.

**4STI-8.7** Identify the concept for hazardous risk assessment.

**4STI-8.8** Identify sources of hazardous materials data.

**4STI-8.9** Identify the basic principles of protective clothing.

**4STI-8.10** Identify confinement and containment techniques.

**4STI-8.11** Identify methods of decontamination.

**4STI-8.12** Identify three phases of termination activities.

**4STI-9** Perform strategy and tactical considerations.

**4STI-9.1** Given a summary of emergency situations the student shall perform strategic and tactical considerations for each incident assigned by the instructor.

**4STI-9.1.1** Given an emergency incident requiring multiple company operations, analyze the situation and identify the resources for control.

**4STI-9.1.2** Demonstrate the assignment and placement of resources identified in **4STI-9.1.1**.

**4STI-9.1.3** Prepare a pre-fire plan for a given target hazard using forms, symbols and maps prescribed by the authority having jurisdiction. Include elements describing the utilization of personnel, equipment, and extinguishing agents.